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E Shragowitz, H Youssef, LC Bening - IEEE Computer Society Conference on System Design: Concepts, 1988 - ieeexplore.ieee.org  
 Page 1 PREDICTIVE TOOLS IN VLSI SYSTEM DESIGN: TIMING ASPECTS. CH2548-6/88/0000/0048\$0 1.00 c 1988 IEEE Eugene Shragowitz, Habib Youssef, Computer and ...  
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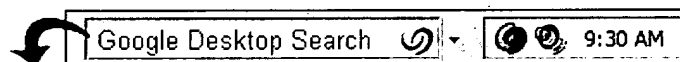
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4085081, C9203-1210B-015; 920205.

**Title**Hierarchical **Bayesian** approach to reliability estimation under competing risk.**Author(s)**[Badarinathi-R](#); [Tiwari-R-C](#).**Author affiliation**

Dept of Production &amp; Decision Sci, North Carolina Univ, Wilmington, NC, USA.

**Source**

Microelectronics-and-Reliability (UK), vol.32, no.1-2, p.249-58, Jan.-Feb. 1992.

**CODEN**

MCRLAS.

**ISSN**

ISSN: 0026-2714, CCCC: 0026-2714/92/ (\$5.00+.00).

**Publication year**

1992.

**Language**

EN.

**Publication type**

J Journal Paper.

**Treatment codes**

T Theoretical or Mathematical.

**Abstract**

In this paper the authors study the exponential failure models under competing risks. Here n-items are considered each with p-components. Each item is put to test until some preassigned time. An item fails if any one of its p-components fail. The component life spans are considered independent and exponentially distributed. The hierarchical **Bayesian** estimates for the parameter estimation are carried out by using independent **Gamma** distributions as first stage priors for the parameters of the exponential **distribution** and then using uniform and improper hyper-priors for scale parameters of the **Gamma distribution**. A **Monte Carlo simulation** is performed to compare these estimates with corresponding maximum likelihood estimates. The study indicates that the hierarchical estimates are superior to maximum likelihood estimates in the sense of their root mean squared errors. (4 refs).

**Descriptors**[Bayes-methods](#); [failure-analysis](#); [Monte-Carlo-methods](#); [parameter-estimation](#); [reliability-theory](#).

**Keywords**

reliability estimation; competing risk; exponential failure models; hierarchical **Bayesian** estimates; parameter estimation; independent **Gamma** distributions; exponential **distribution**; **Monte Carlo simulation**; root mean squared errors.

**Classification codes**

C1210B (Reliability theory).  
C1140Z (Other and miscellaneous).  
C1220 (**Simulation**, modelling and identification).  
C1140G (**Monte Carlo** methods).

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2739991, B86057748, C86047750; 860000.

**Title**

Timing-driven layout of cell-based ICs.

**Author(s)**[Teig-S](#); [Smith-R-L](#); [Seaton-J](#).**Author affiliation**

Tangent Syst Corp, Santa Clara, CA, USA.

**Source**

VLSI-Systems-Design (USA), vol.7, no.5, p.63-73, May 1986.

Translation in: A04.

**CODEN**

VSDEEG.

**ISSN**

ISSN: 0279-2834.

**Publication year**

1986.

**Language**

EN.

**Publication type**

J Journal Paper.

**Treatment codes**

P Practical.

**Abstract**

Timing-driven layout offers a solution to the problem of producing cell-based ICs that satisfy aggressive performance objectives. Timing-driven layout of semicustom ICs incorporates circuit timing requirements as basic criteria for layout optimization. The timing-driven layout process consists of circuit timing analysis, automatic layout using timing analysis results, and report generation documenting circuit performance. Properly applied, timing-driven layout can produce, in a single design pass, ICs that satisfy difficult circuit timing specifications. (2 refs).

**Descriptors**[cellular-arrays](#); [circuit-layout-CAD](#); [digital-integrated-circuits](#).**Keywords**

cell based ICs; semicustom ICs; circuit timing requirements; layout optimization; timing driven layout

process; report generation documenting.

**Classification codes**

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4421850, B9307-6140-135, C9307-1260-117; 930603.

**Title**On model selection by **quasi-Bayesian** predictive densities.**Author(s)**[Djuric-P-M](#); [Doroslovacki-M](#).**Author affiliation**

Dept of Electr Eng, State Univ of New York, Stony Brook, NY, USA.

**Source**1992 IEEE International Symposium on **Circuits** and Systems (Cat. No.92CH3139-3), San Diego, CA, USA, 10-13 May 1992, p.2372-5 vol.5.

Sponsors: IEEE.

Published: IEEE, New York, NY, USA, 1992, 6 vol. 3028 pp.

**ISSN**

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**Publication year**

1992.

**Language**

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**Publication type**

CPP Conference Paper.

**Treatment codes**

T Theoretical or Mathematical.

**Abstract**

M. Aitkin (Journal of the Royal Statistical Society B, vol. 53, p.111-42, 1991) has proposed an unorthodox **Bayesian** procedure for model selection based on **quasi-Bayesian** predictive densities. The idea is to use the data twice, once to obtain a prior density for the parameters, and the second time to analyze the data using the so obtained prior. Aitkin's approach is discussed and compared with alternatives that do not violate the **Bayesian** paradigm. As a main alternative the authors consider the **Bayesian** predictive densities according to models and data. The important example of linear models is examined. **Monte Carlo** simulation results are provided that support the analysis. It is shown that model selections by **quasi-Bayesian** predictive densities yield poor results, particularly when the competing models are hierarchical. (12 refs).

**Descriptors**[Bayes-methods](#); [filtering-and-prediction-theory](#); [Monte-Carlo-methods](#); [signal-processing](#).

**Keywords**

hierarchical models; model selection; quasi **Bayesian** predictive densities; linear models; **Monte Carlo** simulation; competing models.

**Classification codes**

B6140 (Signal processing and detection).  
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4998265, B9508-6140-239, C9508-1260-205; 950713.

**Title**A **Bayesian** procedure for the detection of damped signals.**Author(s)**[Djuric-P-M](#); [Bishop-W-B](#); [Johnston-D-E](#).**Author affiliation**

Dept of Electr Eng, State Univ of New York, Stony Brook, NY, USA.

**Source**Proceedings of IEEE International Symposium on **Circuits** and Systems - ISCAS '94, vol.2, London, UK, 30 May-2 June 1994.

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**Treatment codes**

T Theoretical or Mathematical.

**Abstract**

Multiple hypotheses testing arises in many signal processing applications. It can be viewed as a model selection problem, and as such, is commonly resolved by invoking the popular MDL or AIC rules. These rules are very often inappropriately applied however, particularly when the signal models violate the underlying conditions on which the rules are based. The tools of **Bayesian** inference provide a mechanism for the specification of more accurate criteria for model selection. Through appropriate approximations of the prior predictive densities, one can develop rules similar in form to the AIC and MDL, but with a more complete penalty term. The derived rules are approximations of the maximum a posteriori criterion (MAP), which for a uniform cost function is known to be optimal. We present a general solution to the problem followed by a consideration of the special case of damped signals in white Gaussian noise. In particular, we investigate models whose signal components are comprised of damped sinusoids. **Monte Carlo** simulations are performed, the results of which indicate a marked improvement over both, the AIC and MDL. (8 refs).

**Descriptors**

Bayes-methods; Gaussian-noise; maximum-likelihood-detection; Monte- Carlo-methods; white-noise.

**Keywords**

**Bayesian** procedure; damped signals; multiple hypotheses testing; signal processing applications; model selection problem; **Bayesian** inference; prior predictive densities; penalty term; maximum a posteriori criterion; uniform cost function; white Gaussian noise; damped sinusoids; **Monte Carlo** simulations.

**Classification codes**

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Pattern Recognition, 1990. Proceedings., 10th International Conference on  
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Digital Object Identifier 10.1109/ICPR.1990.118239

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Goldbaum, M.; Moezzi, S.; Taylor, A.; Chatterjee, S.; Boyd, J.; Hunter, E.; Jain  
Image Processing, 1996. Proceedings., International Conference on  
Volume 3, 16-19 Sept. 1996 Page(s):695 - 698 vol.3  
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## 3. Multiresolution stereo by simulated annealing

Chang, C.; Chatterjee, S.;  
Neural Networks, 1990., 1990 IJCNN International Joint Conference on  
17-21 June 1990 Page(s):885 - 890 vol.2  
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